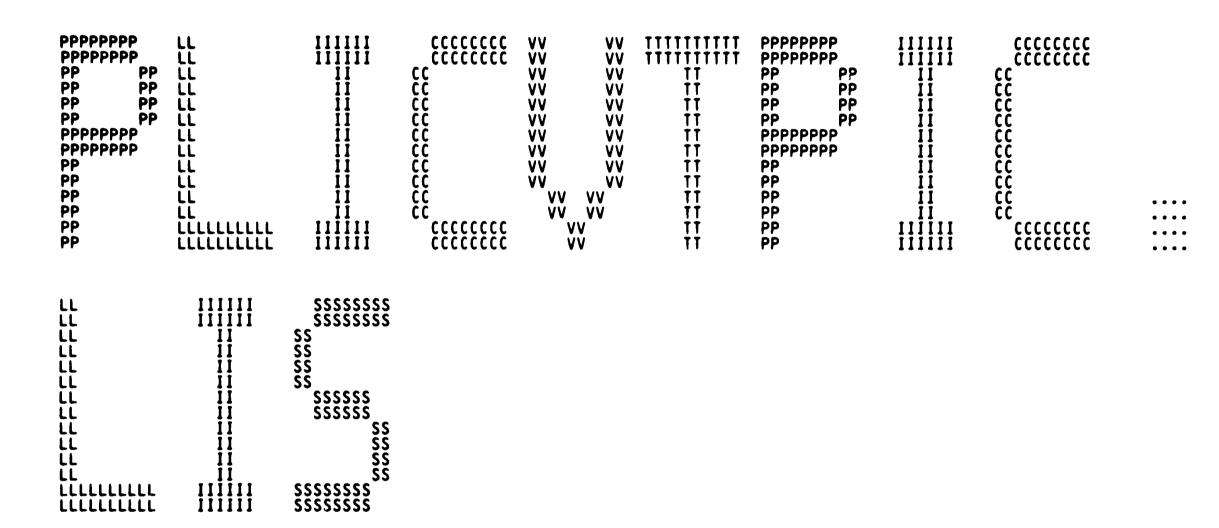
_\$2

PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP			RRRRRRRRRRRR RRRRRRRRRRRRRRRRRRRRRRRRR		
PPPPPPPPPPP	rrr	111111111	RRRRRRRRRRR		LLL
PPP PPP	LLL	III	RRR RRR	ŢŢŢ	LLL
PPP PPP	LLL	III	RRR RRR	TTT	LLL
PPP PPP	LLL	111	RRR RRR	TTT	LLL
PPP PPP	ĹĹĹ	ĬĬĪ	RRR RRR	TTT	iii
PPP PPP	ίίί	ĬĬĬ	RRR RRR	ŤŤŤ	ili
PPP PPP	iii	iii	RRR RRR	ŤŤŤ	ili
PPPPPPPPPPP	iii	iii	RRRRRRRRRRRR	ήij	
PPPPPPPPPPP	111	†††	RRRRRRRRRRR	ίii	
	LLL	111			III
PPPPPPPPPPP	řřř	111	RRRRRRRRRRR	ŢŢŢ	rřř
PPP	LLL	III	RRR RRR	ŢŢŢ	LLL
PPP	LLL	111	RRR RRR	TTT	LLL
PPP	LLL	111	RRR RRR	TTT	LLL
PPP	ILL	111	RRR RRR	TTT	ίίι
PPP	L	ĬĬĬ	RRR RRR	ŤŤŤ	iii
PPP		iii	RRR RRR	ŤŤŤ	111
PPP	1111111111111	11111111	RRR RRR	τŤ	1111111111111
PPP	111111111111111	11111111	RRR RRR	ήij	
		1111111		7 1 I 7 7 7	
PPP		11111111	RRR RRR	[']	



N 11 PLISCVTPIC Table of contents - convert numeric and picture 16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 Page 0 pli\$cvt_to_pic - convert numeric to picture
edit interpret routines
pli\$cvt_fr_pic - convert picture to numeric
pli\$valid_pic - validate picture value (1) (2) (2) (2) 122 251 429 620

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54 55

56 57

```
6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1
                                                                                                           (1)
              .title pli$cytpic - convert numeric and picture
              .ident /1-003/
                                                                           : Edit CGN1003
                                                                           ; Edit WHM1002
        COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
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   : facility:
31
32
33
              VAX/VMS PL1 Run-Time library.
34
35
      abstract:
36
37
      This module contains routines to convert numeric to picture and picture
      to numeric.
39
      author: R. Heinen 21-JAN-1980
40
41
      modified on 13-feb-1981 by R. Heinen
42
              fixed problem with convert from overpunched sign character.
44
              1-002 Bill Matthews 29-September-1982
                        Invoke macros $defdat and rtshare instead of $defopr and share.
46
47
48
              1-003
                       Chip Nylander
                                            04-April-1983
49
50
                        Fix conversion to picture with floating sign and no non-zero
51
                        digits to the left of the decimal point.
                        The fix is as follows: when there is a floating sign, the
```

floating sign must be placed into the picture when

in three ways; any non-zero digit in the source, any

significance is established. Significance is established

non-suppressed digit in the picture specification (e.g. '9'),

16-SEP-1984 02:15:53 VAX/VMS Macro V04-00

```
C 12
PLISCVTPIC
1-003
                                                                                    16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 
6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1
                                                                                                                                                     (1)
                                     - convert numeric and picture
                                                    58
59
                                                                          or an overt significance specifier ("V").
                                          0000
                                                                         Move_zero_supress and move_digits take care of the first two cases. The third case was previously neglected;
                                                    60
                                           0000
                                                    61
                                                    62
                                           0000
                                                                          set_significance now takes care of it.
                                           0000
                                           0000
                                                    64
                                           0000
                                                    65
                                           0000
                                                         external definitions
                                           0000
                                                    67
                                           0000
                                                    68
                                           0000
                                                    67777777777890
                                                                Sdefpic
                                                                                                     : define picture constant
                                           0000
                                           0000
                                                         local definitions
                                           0000
                                           0000
                                                         define arguments for both routines
                                           0000
                               00000008
                                           0000
                                                                picture_constant = 4
                                           0000
                                                                source_size
                                                                                    = 8
                               000000C
                                          0000
                                                                                    = 12
                                                                source_address
                               00000010
                                          0000
                                                                                    = 16
                                                                target_size
                               00000014
                                           0000
                                                                                    = 20
                                                                target_address
                                           0000
                                           0000
                                                    81
                                           0000
                                                         define stack for numeric to picture
                                           0000
                               FFFFFFC
                                          0000
                                                    84
                                                                sign
                                                                                                     ; sign byte
                               FFFFFFB
                                                                float
                                                                                   = -5
                                          0000
                                                                                                     : float byte
                               FFFFFFA
                                                                                   = -6
                                           0000
                                                                significance
                                                                                                       significance indicator
                               FFFFFFF9
                                          0000
                                                    87
                                                                fil
                                                                                   = -7
                                                                                                     : fill character
                               FFFFFFF8
                                          0000
                                                    88
                                                                                   = -8
                                                                zero_indic
                                                                                                     : zero indicator
                               00000009
                                          0000
                                                    89
                                                                cvt_fo_pic_stack= 9
                                                                                                     ; size of stack
                                           0000
                                          0000
                                                    91
                                                    92
93
                                          0000
                                                         define picture to numeric stack
                                          0000
                               FFFFFFC
                                          0000
                                                                found_sign
                                                                                                     ; sign found
                                                                                 = -40
                               FFFFFD8
                                                                inter_result
                                                                                                     ; 31 bytes of storage for numeric value
                                          0000
                                                   96
97
                               00000028
                                                                cvt_fr_pic_stack= 40
                                          0000
                                                                                                     ; stack size
                                           0000
                                           0000
                                           0000
                                                       ; local data
                                           0000
                                                   101
                                                                rtshare
                                                       ; conversion tables for over punch
                                                  105 plus_over_punch:
106 . byte 123,65,66,67,68,69,70,71,72,73
      49 48 47 46 45 44 43 42 41 7B
                                                   107 minus_over_punch:
       52 51 50 4F 4E 4D 4C 4B 4A 7D
                                           000A
                                                                        125,74,75,76,77,78,79,80,81,82
                                                                 .byte
                                           0014
                                                       packed_zero:
                                      00
                                          0014
                                                   110
                                                                 .packed 0
```

/0123456789/

'+-/.,\$CcDd *'
123,65,66,67,68,69,70,71,72,73

0015

112

113

114

2A 20 64 44 63 43 24 2C 2E 2F 2D 49 48 47 46 45 44 43 42 41

<u> 111 valid_char_table:</u>

.ascii

.ascii

.byte

PLI 1-0

CRTT CONTROL OF THE C

PLI

Sym

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MOV MOV MOV

MOV MOV MOV

NEXE OF PASSET O

```
- convert numeric and picture 16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 pli$cvt_to_pic - convert numeric to pict 6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1
                                                                                                                                                (1)
                                                            .sbttl pli$cvt_to_pic - convert numeric to picture
                                       005A
                                                   ; pli$cvt_to_pic - convert numeric to picture
                                       005A
                                       005A
                                                     functional description:
                                       005A
                                       005A
                                                     This routine converts a packed decimal string described by source_size(ap)
                                       005A
                                                     and source_address(ap) to a character string described by target_size(ap)
                                       005A
                                                     and target address(ap) based on the picture constant block addressed by
                                              131
132
133
134
                                       005A
                                                     picture_constant(ap).
                                       005A
                                       005A
                                                     inputs:
                                       005A
                                              135
                                       005A
                                                            O(ap) = 5
                                       005A
                                                            4(ap) = picture_constant address
                                       005A
                                                            8(ap) = source size
                                       005A
                                                            12(ap) = source address
                                       005A
                                              139
                                                            16(ap) = target size
                                       005A
                                              140
                                                            20(ap) = target address
                                       005A
                                              141
                                              142
                                       005A
                                                     outputs:
                                       005A
                                       005A
                                              144
                                                            target string is filled in.
                                       005A
                                       005A
                                              146
                                                     ERROR maybe signalled.
                                              147 :
                                       005A
                                       005A
                                              148 ;--
                                CFFC
                                              149
                                       005A
                                                                     pli$cvt_to_pic,^m<iv,dy,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11>
                                                            .entry
                   5B
                         DA AC
                                       005C
                                              150
                                  D0
                                                                     picture_constant(ap),r11; address picture constant
                                                            movl
                        06 AB 03
                                  95
13
                                               151
                                       0060
                                                                     pic$b_language(r11)
                                                            tstb
                                                                                                   type runtime?
                                              152
153 ;
                                       0063
                                                            beal
                                                                                                   if eal then yes
                                       0065
                                              154; process editpc type
                                       0065
                                              155 ;
                                       0065
                                              156
157
                          00A5
                                       0065
                                                            brw
                                                                     error
                                                                                                 ; temp---- error
                                       0068
                                              158
159
                                       0068
                                                     interpret subroutine at runtime
                                       0068
                                              160 55:
                      5E
                            09
                                  C2
                                      0068
                                                            subl
                                                                     #cvt_to_pic_stack,sp
                                                                                                 ; allocate stack space
                                       006B
                                               161
                                              162 ;
163 ;
                                       006B
                                                     convert source string to internal buffer
                                       006B
                        OC AC
                                       006B
                                              164
                                                                     source_address(ap),r8
                                                                                                   get address of the source string
                                                            movl
                   56
                                               165
                         08 AC
                                  9A
                                       006F
                                                                                                   get source digit size
                                                            movzbl
                                                                     source_size(ap),r6
                                              166
167
                                       0073
                   6B
                         08
                            AC
                                  B1
                                                            CMDW
                                                                     source_size(ap),pic$w_pq(r11); source_same p,q as result?
                                  13
                                       0077
                                                            beql
                                                                                                   continue if yes
                   50
                         09
                                       0079
                                                                                                   get scale of source
                                  9A
                                               168
                                                            movzbl
                                                                     source_size+1(ap),r0
                                              169
170
                                  9A
                                       007D
                                                            movzbl
                                                                     pic$w_pq(r11),r9
                                                                                                   get size of result
                   52
                         01
                            AB
                                  9A
                                       0800
                                                                      ic$w_pq+1(r11),r2
                                                                                                   get scale of result
                                                            movzbl
                                  C2
C2
F8
                                       0084
0087
                                               171
                                                                     r0, r2
                                                            subl
                                                                                                   source - result = shift
                            59
52
59
                                              172
173
174
175
                                                                     r9.sp
                                                                                                   allocate space for shift
                                                            subl
                                                                     r2,r6,(r8),#0,r9,(sp)
     59
                       56
           00
                 68
                                       A800
6E
                                                            ashp
                       56
58
                                  D0
                                       0091
                                                            movl
                                                                                                   use new size
                            6E
56
                                  9Ę
                                       0094
                                                                     (sp), r8
                                                            movab
                                                                                                   address it
                                  ČŽ
D7
                       5E
                                       0097
                                              176 75:
                                                                                                   allocate room for result
                                                            subl
                                                                     r6,sp
                            5E
                                              177
                                       009A
                                                                                                   allocate for sign
                                                            decl
                                  94
                                              178
                         F 8
                                       0090
                                                                     zero_indic(fp)
                            AD
                                                            clrb
                                                                                                  assume zero
```

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F 12
PLISCVTPIC
1-003
                                        - convert numeric and picture 16-SEP-1984 02:15:53 pli$cvt_to_pic - convert numeric to pict 6-SEP-1984 11:37:15
                                                                                                                      VAX/VMS Macro V04-00
                                                                                                                                                                 (1)
                                                                                                                                                         Page
                                                                                                                      [PLIRTL.SRC]PLICVTPIC.MAR; 1
                6E
                      56
                                   56
03
                                         08
13
                                                                               r6,(r8),r5,(sp)
                             68
                                                                      cvtps
                                                                                                                convert to character
                                              00A4
                                                       180
                                                                      beal
                                                                                                                if eql then zero
                                         96
                                              00A6
                                                       181
                               F8 AD
                                                                      incb
                                                                                zero_indic(fp)
                                                                                                              : set non zero
                                              00A9
                                                              blank out the target field in case of error
                                                       184
185 10$:
        10 AC
                   20
                                  00
                                         20
                                              00A9
                         14 BC
                                                                                #0, atarget_address(ap), #32, target_size(ap), atarget_address(ap);
                                                                      movc5
                               14 BC
                                              00B3
                                                              initialize the assumed values
                               FB AD
                                                                               float(fp)
significance(fp)
                                                                                                                float is undefined significance is off
                                                                      clrb
                                         94
90
90
90
                                  AD
20
                                                       190
                               FA
                                                                      clrb
                                                       191
                         F9 AD
                                                                                #^a/ /,fill(fp)
                                                                      movb
                                                                                                                fill begins as blank
                                                       192
193
                                   6E
                                              00BC
                                                                      movab
                                                                                (sp),r]
                                                                                                                address source string ( movc side effect)
                                              00BF
                         FC
                            AD
                                   61
                                                                                (r!),sign(fp)
                                                                      movb
                                                                                                                get sign
                                         91
                                                       194
                                                                                (r1)+,#*a/+/
                             28
                                              00C3
                                                                                                                positive?
                                                                      cmpb
                                         13
                                                       195
                                                                                15$ ; if eql then yes #pic_v_has_sign.pic$b_flags(r11),error; else must have sign specifie
                                   05
                                              0006
                                                                      beal
                                                       196
197
                     40 05 AB
                                   04
                                         E1
                                              0008
                                                                      bbc
                                              DOCD
                                              00CD
                                                       198
                                                              allocate space for initial target string
                                              ŎŌCD
                                                       199
                              04 AB
50
                                                            15$:
                                              OOCD
                                                       200
201
203
203
204
205
206
207
208
                         50
                                                                      movzbl
                                                                               pic$b_byte_size(r11),r0 ; get max size of target
                                         (2
9E
                                              00D1
                                                                      subl
                                                                                r0,sp
                                                                                                                allocate the space
                                                                                (sp),r3
                                              00D4
                                   6E
                                                                      movab
                                                                                                                address it ( move side effect )
                                         9Ē
                         5A
                               80
                                              00D7
                                   AB
                                                                      movab
                                                                                pic$b_program(r11),r10 ; address edit program
                                              OODB
                                              OODB
                                                              main loop of interpreter
                                              OODB
                                              CODB
                                                            fetch_next:
                                              OODB
                                                       209
210
                                              OODB
                                                              interpret edit program
                                              OODB
                            52
50
                                              OODB
                                                       211
                                   88
                                                                                                              ; get opcode
                                                                                (r10)+.r2
                                                                      movzbi
                                                       212
213
                                   84
                                         9A
                                              OODE
                                                                               (r10)+,r0
                                                                      movzbi
                                                                                                              ; get argument
                                              OOE 1
                                                                      case
                                                                               r2,<-
                                              ŎŎĒ 1
                                                                                move_zero_supress,-
                                                       Ž15
                                              00E1
                                                                               insert_character,-
set_fill_character,-
                                              ÕÕĒ 1
                                              00E1
                                                                                insert_significant,-
                                              00E1
                                                                                move_digits,-
                                              ŎŎĔ 1
                                                                                insert_minus,-
                                              ÕÕĒ 1
                                                       222232222222223334
222222222222233334
                                                                                insert_plus,-
                                              ÕÕĒ 1
                                                                                insert_sign,-
                                              ÖÖĒ 1
                                                                               set_float_character,-
                                              00E1
                                                                                set_float_minus,-
                                              ÕÕĒ 1
                                                                               set_float_plus,-
set_float_sign,-
                                              ŎŎĔ 1
                                              OOE 1
                                                                               skip_if_zero,-
fill_field,-
                                              00E1
                                                                                set_significance,-
                                              ÕÕĒ 1
                                                                                end_edit,-
                                              00E 1
                                                                                supress_digit,-
                                                                                move_digit_minus,-
                                              00E1
                                                                                move_digit_plus,-
                                                                                move_digit_sign-
```

**F

(2)

```
16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPI

    convert numeric and picture

                                                                                                                           Page
                edit interpret routines
                                                                                          [PLIRTL.SRC]PLICVTPIC.MAR; 1
                              .sbttl edit interpret routines
                                   ; zero_supress move
                                  move_zero_supress:
blbs sid
    1E FA AD 61
                                                     significance(fp),move_character; br if significance on
(r1),#^a/0/ ; zero digit?
                 E8
                                            cmpb
           ŎĊ
                 12
                                                      15$
                                            bnea
                                                                                    if neg then insert it
                 06
90
F5
                                            incl
                                                      r1
                                                                                    pass zero digit
  83
        F9
                                                      fill(fp),(r3)+
                                            movb
                                                                                    insert fill character
           50
                      013E
                                                     r0,10$
                                            sobatr
                                                                                    continue until done
                              262
263 15$:
                 31
                      0141
                                            brw
                                                      fetch_next
                 88
95
13
           01
                      0144
  FA AD
                                            bisb
                                                      #1,significance(fp)
                                                                                    turn on significance
        FB
                      0148
           AD
                                                                                    float byte defined?
                                                      float(fp)
                                            tstb
                               265
                      014B
                                                      move_character
float(fp),(r3)+
                                                                                    br if no
                                            beal
  83
                 90
       FB AD
                      014D
                               266
                                            movb
                                                                                  : insert floab byte
                               267
                      0151
                      0151
                                   ; move characters
                      0151
                              269
                      0151
                                  move_character:
                 28
31
63
                      0151
     61
                                                      r0,(r1),(r3)
                                                                                  ; move characters to output
                                            movc3
         FF83
                      0155
                                            brw
                                                      fetch_next
                      0158
                      0158
                                   ; insert_character
                      0158
                      0158
                                   insert_character:
                 90
31
                      0158
     83
                                                      r0.(r3)+
                                                                                  ; insert character
                                            movb
         FF7D
                      015B
                                            prw
                                                      fetch_next
                      015E
                      015E
                              280
                                  ; set_fill_character
                      015E
                              281
                                  set_fill_character:
                      015E
                 90
31
                              283
  F9 AD
                      015E
                                                     rO, fill(fp)
                                            movb
                              284
         FF76
                      0162
                                            prw
                                                      fetch_next
                              285
                      0165
                              286; significant_insert
                      0165
                              287 :
289 insert_significant:
                      0165
                      0165
                              Ž89
    04 FA AD
                 E8
                      0165
                                                      significance(fp),10$
                                                                                  ; br if significance on
                                            blbs
  50
       F9 AD
                      0169
                              290
                                                     fill(fp),r0
r0,(r3)+
                                                                                    get fill character
                                            movb
                              291 10$:
292
293 ;
                 90
31
           50
                      016D
     83
                                            movb
                                                                                    insert character
                      0170
         FF68
                                            brw
                                                      fetch_next
                      0173
                              294
295
                      0173
                                  ; move_digits
                      0173
                      0173
                              296 move_digits:
    OC FA AD
                 E8
90
13
                               297
                                                      significance(fp),10$
                      0173
                                            blbs
                                                                                    br if significance is on
  52
       FB AD
                              298
                      0177
                                            movb
                                                      float(fp),r2
                                                                                    get float byte
           03
52
                               Ž99
                      017B
                                                                                    br if not defined
                                            beal
                 90
                               300
     83
                                                      r2.(r3)+
                      017D
                                            movb
                                                                                    insert float byte
                 96
                      0180
                              301
                                                                                    set significance on
        FA
                                                      significance(fp)
                                            incb
                              302 10$:
303 :
                      0183
                 11
           Cı
                                            brb
                                                      move_character
                                                                                  : continue in common
                      0185
                              304
305
                      0185
                                   ; insert minus
                      0185
                      9185
                                   insert_minus:
                      0185
  2D
                 91
        FC AD
                                                      sign(fp),#^a/-/
                                            cmpb
                                                                                  : negative
```

H 12

		numeric and picture pret routines	I 12 16-SEP-1984 6-SEP-1984	02:15:53 VAX/VMS Macro V04-00 Page 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1	8 (2)
50 F9 AD 83 50 FF46	13 0189 90 018B 90 018F 31 0192 0195 0195	308 beql 309 movb 310 10\$: movb 311 brw 312 : 313 ; insert plus	10\$ fili(fp),r0 r0,(r3)+ fetch_next	<pre>; if eql then yes ; insert blank or star ; insert character if yes ; continue</pre>	
2B FC AD 04 50 F9 AD 83 50 FF36	0195 0195 91 0195 13 0199 90 019B 90 019F 31 01A2 01A5 01A5	314 ; 315 insert_plus: 316 cmpb 317 beql 318 movb 319 10\$: movb 320 brw 321 ; 322 ; insert sign 323 ; 324 insert_sign: 325 movb	<pre>sign(fp),#^a/+/ 10\$ fill(fp),r0 r0,(r3)+ fetch_next</pre>	<pre>; positive? ; if eql then yes ; insert blankor fill ; insert character if yes ; continue</pre>	
83 FC AD FF2F	90 01A5 90 01A5 31 01A9 01AC 01AC	323; 324 insert_sign: 325 movb 326 brw 327; 328; set float char	sign(fp),(r3)+ fetch_next	; insert sign byte ;	
FB AD 50 FF28	01AC 01AC 90 01AC 31 01B0 01B3	329; 330 set_float_charac 331 movb 332 brw 333; 334; set float minu	ter: r0,float(fp) fetch_next		
2D FC AD 07 FB AD 50 FF1B FB AD F9 AL FF13	0183 91 0183 12 0187 90 0189 31 0180 90 0100	335; 336 set_float_minus: 337 cmpb 538 bneq 339 movb 540 brw 541 10\$: movb 542 brw 343;		<pre>; negative? ; if neg then no ; set float if true ; ; save as fill character</pre>	
2B FC AD 07 FB AD 50 FF06 FB AD F9 AD FEFE	91 01C8 01C8 01C8 01C8 12 01CC 90 01CE 31 J1D2 90 01D5 31 01DA 01DD	344; set float plus 345; 346 set_float_plus: 347 cmpb 348 bneq 349 movb 350 brw 351 10\$: movb 352 brw 353; 354; set float sign	sign(fp),#^a/+/ 10\$ r0,float(fp) fetch_next fill(fp),float(fp) fetch_next	<pre>; positive ; if neg then no ; set float if true ;</pre>	
FB AD FC AD FEF6	90 01D5 31 01DA 01DD 01DD 01DD 01DD 90 01DD 90 01E5 01E5 01E5 01E5	354; set float sign 355; 356 set_float_sign: 357 movb 358 brw 359; 360; skip_if_zero 361; 362 skip_if_zero: 363 tstb	sign(fp),float(fp) fetch_next	; ;	
F8 AD 04	01E5 01E5 95 01E5 12 01E8	361; 362 skip_if_zero: 363 tstb 364 bneq	zero_indic(fp) 10\$; zero? ; if neq then not zero	

I 12

```
J 12
PLISCVTPIC
1-003
                                                                                         16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 [PLIRTL.SRC]PLICVTPIC.MAR;1
                                       - convert numeric and picture
                                       edit interpret routines
                                                                                                                                                               (2)
                                                      365
366 10$:
367 ;
                                        3E
31
                                                                               (r10)[r0],r10
                                                                                                            ; set new edit pc
                                                                     MOVAW
                                             01EE
01F1
                                FEEA
                                                                     PLM
                                                                               fetch_next
                                                      368 ; fill_field
                                             01F1
                                             01F1
                                                      370 fill_field:
                                             01F1
            50
                  F9 AD
                                             01F1
                                                                              #0,(r3),fill(fp),r0,(r3);
      63
                            63
                                        2C
31
                                                                     movc5
                                             01F8
                                FEEO
                                                                     brw
                                                                              fetch_next
                                             01FB
                                                      374; set_significance
                                             01FB
                                             01FB
                                             01FB
                                                      376 set_significance:
                                        E8
90
13
90
                                                                              significance(fp),10$
                           OD FA AD
                                                                     blbs
                                                                                                            ; br if significance is on
                              FB AD
                                                                                                              get float byte
br if not defined
                                                                     movb
                                                                               float(fp),r2
                                  03
52
                                                                     beal
                            83
                                                      380
                                                                               r2,(r3)+
                                                                     movb
                                                                                                              insert float byte
                                        88
31
                                  ÓĪ
                                                      381
                        FA AD
                                                                              #1, significance(fp)
                                                                     bisb
                                                                                                            ; turn on significance
                                             020C
020F
                                FECC
                                                           105:
                                                                     brw
                                                                               fetch_next
                                                      383
                                             020F
                                             020F
                                                      385
                                                          ; supress_digit
                                             020F
                                                      386
                                                      387 supress_digit:
                            50
30
                                                                               (r1)+,r0
                                                                     movb
                                                                                                            ; get next source digit
                                        91
12
90
90
31
                                  50
03
20
50
                                                      389
                                                                              r0,#^a/0/
                                                                                                            ; zero?
; if neg then no
                                                                     cmpb
                                                      390
                                                                     bnea
                                                                               10$
                                             0217
021A
021D
0220
0220
                                                      391
                                                                              #^a/ /,r0
r0,(r3)+
                            50
                                                                     movb
                                                                                                            ; insert blank
                                                      392
                                                                     movb
                                                                                                            ; move character
                                                      393
                                FEBB
                                                                     brw
                                                                               fetch_next
                                                      394
                                                      395
                                                          ; move_digit_minus
                                                      396
                                                      397 move_digit_minus;
                                                                     movzbl (r1)+,r0
                                                                                                              get next source digit
                              FC AD
                                        91
12
82
90
90
31
                                                      399
                                                                              sign(fp),#^a/-/
                                                                                                              negative source?
                                                                     cmpb
                                  09
                                                                    bneq
                                                                               105
                                                                                                              if neg then no
                                  30
                                                                              W^a/0/,r0
                                                      401
                                                                     subb
                                                                              w^minus_over_punch[r0],r0; get new character r0,(r3)+ ; insert character
                   50
                         FDD9
                               CF40
                                                                     movb
                               50
FEA3
                                                      403 10$:
                            83
                                                                     movb
                                                      404
                                                                     brw
                                                                              fetch_next
                                                      405
                                                          ; move_digit_plus
                                                      407
                                                      408 move_digit_plus:
                            50
                                                                    movzbl (r1)+,r0
                                                                                                            ; get next source character
                                                                              sign(fp),#^a/+/
                                        91
12
82
90
90
31
                              FC AD
                                                      410
                                                                     cmpb
                                                                                                              positive?
                                  09
30
                                                                    bneq
                                                      411
                                                                                                              if neg then no
                            50
                                                                              #^a/0/,r0
                                                      412
                                                                     subb
                         FDB7 CF40
83 50
                                                                              w^plus_over_punch[r0],r0; get new character
r0,(r3)+ ; insert new character
                   50
                                                                     movb
                                             024A
                                                      414 10$:
                                                                                                               insert new character
                                                                     movb
                                                      415
                                FE8B
                                                                     brw
                                                                               fetch_next
                                                      416
                                                      417 ; move_digit_sign
                                                      418
                                                          move_digit_sign:
                                                                    movab waminus over punch,r2 cmpb sign(fp),#^a7-/
                      52 FDB6 CF
2D FC AD
                                                                                                            ; address minus set
                                                                                                           ; negative?
```

Sym S\$! PL! PL! PL! PL!

> SAE PL

Pha Ini Com Pas Sym

Sym Pse Crc Ass The

The 83 9 F

Mac -\$2 -\$2 TO1

72 The

MA

K 12 PLISCVTP1C 1-003 16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 [PLIRTL.SRC]PLICVTPIC.MAR;1 Page 10 (2) - convert numeric and picture edit interpret routines 05 FDA1 CF 50 81 50 30 83 6240 0259 025B 0260 0263 0266 026A 422 423 424 10\$: 425 426 427 10\$
w^plus_over_punch,r2
(r1)+,r0
w^a/0/,r0
(r2)[r0],(r3)+ ; if eql then yes ; address positive set ; get source character 13 9E 9A 82 91 beql 52 movab movzbl subb movb ; insert new character fetch_next FE6E brw

```
L 12
PLISCVTPIC
1-003
                                      - convert numeric and picture 16-SEP-1984 02:15:53 pli$cvt_fr_pic - convert picture to nume 6-SEP-1984 11:37:15
                                                                                                                 VAX/VMS Macro VO4-00
                                                                                                                                                    Page
                                                                                                                 [PLIRTL.SRC]PLICVTPIC.MAR: 1
                                                    43312334
                                            .sbttl pli$cvt_fr_pic - convert picture to numeric
                                                         ;++
                                                           pli$cvt_fr_pic - convert picture to numeric
                                                            functional description:
                                                            This routine converts a picture character string described by 8(ap) and 12(ap)
                                                            to a numeric value described by 16(ap) and 20(ap) based on the picture constant
                                                            addressed by picture_constant(ap).
                                                     438
439
                                                            inputs:
                                                                   O(ap) = 5
                                                                   4(ap) = picture_constant address
                                                                   8(ap) = source \overline{size}
                                                     444
                                                                   12(ap) = source address
                                                     445
                                                                   16(ap) = target size
                                                     446
                                                                   20(ap) = target address
                                            026D
                                                     447
                                            026D
                                                     448
                                                            outputs:
                                            026D
                                                     450
                                            026D
                                                                   target string is filled in.
                                                     451
                                            026D
                                                    452
453
                                                            ERROR maybe signalled.
                                                    454
455
                                                                            pli$cvt_fr_pic,^m<iv,dv,r2,r3,r4,r5,r6,r7,r8,r9,r10,r11>
#cvt_fr_pic_stack,sp ; allocate_stack_space
                                     CFFC
C2
94
                                                                   .entry
                                                    456
457
458
459
                                 28
AD
                           5E
                                                                   subl
                                                                   clrb
                                                                             found_sign(fp)
                                                                                                          ; set no sign found
                             04 AC
                                       DO
                        5B
                                                                   movl
                                                                            picture_constant(ap),r11; address picture constant
                                            0279
0279
                                                     460
                                                         ; calc size of source string
                                            0279
                                                     461
                                                    462
463
                             04 AB
                                       9A
B1
5
C0
C2
9E
                        56
                                                                            pic$b_byte_size(r11),r6 ; get picture designate size
                                                                   movzbl
                                 56
04
                       08 AC
                                                                            r6.source_Size(ap)
                                                                                                            less or greater than source?
                                                                   CMDW
                                                                                                            if leg then use it
                                                     464
                                                                   bleq
                             08
00
                                 AC
AC
56
                       56
57
                                                     465
                                                                                                           use smaller size
                                                                   movzwi
                                                                            source_size(ap),r6
                                                         105:
                                                     466
                                                                   movi
                                                                            source_address(ap),r7
                                                                                                           get source address
                                                     467
                                                                   subl
                                                                            r6.sp
                                                                                                           allocate space for ascii text
                                 6E
                                                     468
                                                                   movab
                                                                            (sp), r8
                                                                                                         ; copy address of space
                                                     469
                                                           set result to zero
                                                    471
472
473
                                            0291
                                       9A
F8
                             10 AC
                                                                   movzbl target_size(ap),r0
                                                                                                           get target size p value
   50
         00
               FD79 CF
                           01
                                                                            #0,#1,w^packed_zero,#0,r0,atarget_address(ap);
                                                                   ashp
                              14 BC
                                                    474
475
476
477
                                                           loop through string, extracting digits and picking up sign
                                                         locate_char:
                                 87
53
4A
                                       9A
3A
12
31
                                                    478
                                                                   movzbl
                                                                            (<u>r</u>7)+,<u>r</u>3
                                                                            (r̄7)+,r̄3
r̄3,#valid_char_size,w^valid_char_table; locate character in valid t
                                            8A50
8A50
AA50
DA50
DA50
                                                     479
               FD6D CF
                                                                   locc
                                                    480
481
482
483
                                                                   bneg
                                                                            select_action
                                                                                                         ; if neg then valid character found
                               FE60
                                                                   brw
                                                                            error
                                                                                                         ; signal error
                                                           get next character
```

Tat

EF 56

FC AD

04 05 AB

FC

7E

50 51

50

1F

51

D8 AD

D8 AD

00

50

AD

1F

6E

50

1F

FC

00

ŽB

ŌŌ

ŽĎ

AD

50

ŎŠ

1F

50

11 AC

01

10

AB 51

AC

51

14 BC

```
M 12
- convert numeric and picture 16-SEP-1984 02:15:53 pli$cvt_fr_pic - convert picture to nume 6-SEP-1984 11:37:15
                                                                                             VAX/VMS Macro V04-00
                                                                                             [PLIRTL.SRC]PLICVTPIC.MAR; 1
                       next_character:
 F 5
       02AD
                                   sobgtr r6,locate_char
                                                                                   : continue in more to scan
       02B0
                          converet number to numeric
                  491 492 493
                          setup default sign based on presence of '+' or I format
                                                                                   ; sign found?
                                                found_sign(fp)
                                    tstb
 12
       02B3
                                                15$
                                    bnea
                                                                                     if neg then yes
       02B5
                  495
                                               #^a/+/,found_sign(fp)
                                   movb
                                                                                      assume positive
 É1
90
                  496
497
                                               #pic_v_minus.pic$b_flags(r11),15$; br if not negative default
#ra/=/,found_sign(fp);
       0289
                                   bbc
       02BE
02C2
02C2
                                   movb
                  498
                       15$:
 C3
90
13
                  499
                                    subl3
                                               sp,r8,r0
                                                                                      get size of character string
                  500
                                                found_sign(fp),-(sp)
                                   movb
                                                                                      insert sign at front of buffer
                  501
       02CA
                                                100$
                                   begl
                                                                                      if eql then answer is zero
                                               r0,#31
 D1
                                    cmpl
                                                                                      more than maximum?
 15
                                   blea
                                                                                      if leg then ok
 DO
       02D1
                                               #31.r0
                                   movi
                                                                                      convert maximum
                  505
                       105:
                                               r0,(sp),#31,inter_result(fp); convert to packed
       02D4
                                   cvtsp
                  506
507
       02DA
       02DA
                          scale intermediate result to requested precision
       02DA
                  508
       02DA
                  509
                                               target_size+1(ap),r0
pic$w_pq+1(r11),r1
                                    movzbl
 94
       02DE
                  510
                                   movzbl
subl3
 C3
                                               r1,r0,r1
                                                                                      calc shift count
 9Ã
       02E6
                  512
                                               movzbl
                  513
 F8
       02EA
                                   ashp
                 514
515
 04
       02F3
                       1005:
                                   ret
                                                                                   : done
                          select action based on character type
                       select_action:
                  519
                                                                                   ; case on character location in table
                                               r0.<-
                                   case
                                              error,-
pass_nega_digit,-
pass_pos_digit,-
                                               error,-
                                                                                     zero is bad case
                                                                                   ; pass overpunched digit
                  ; pass overpunched digit
                                                                                   ; pass overpunched digit
                                                                                   ; pass overpunched digit
                                                                                   ; pass overpunched digit
                                                                                   ; pr , overpunched digit
                                                                                   ; P.
                                                                                              verpunched digit
                                                                                   ; pa
                                                                                             verpunched digit
                                                                                   ; pass overpunched digit
                                                                                   ; pass overpunched digit
                                                                                     pass overpunched diğit
                                                                                   ; pass overpunched digit
                                                                                   ; pass overpunched digit
```

pass_pos_digit,-

; pass overpunched digit ; pass overpunched digit

; pass overpunched digit

```
16-SEP-1984 02:15:53
6-SEP-1984 11:37:15
              - convert numeric and picture
                                                                                      VAX/VMS Macro V04-00
                                                                                      EPLIRTL.SRCJPLICVTPIC.MAR; 1
             pli$cvt_fr_pic - convert picture to nume
                                                                                                                              (2)
                                                                                skip star
                                                  next_character,-
                           skip space
                                                  next_character,-
                                                  db_test,-
db_test,-
                                                                                test for db
                                                                                test for db
                                                  cr_test,-
                                                                                test for cr
                                                  cr_test,-
                                                                                test for cr
                                                                                skip $
                                                  next_character,-
                                                                                skip
                                                  next_character,-
                                                  next_character,-
                                                                                skip
                                                  next_character,-
                                                                                skip
                                                  pass_sign,-
                                                                                found -
                                                  pass sign, -
pass digit, -
                                                                                found +
                                                                                move normal digit
                                                  pass_digit,-
                                                                                move normal digit
                           562
563
                                                  pass_digit.-
                                                                                move normal digit
                                                  pass_digit>
                                                                                move normal digit
                   0350
                           564
                   0350
                           565
                                  case subroutines
                   0350
                           566
                   0350
                            567
                                pass_digit:
      53
FF57
              90
31
                   0350
                           568
                                                  r3,(r8)+
   88
                                         movb
                                                                              ; pass digit
                   0353
                           569
                                         prm
                                                  next_character
                   0356
                                pass_sign:
              95
12
                   0356
     FC AD
                                         tstb
                                                  found_sign(fp)
                                                                                sign found already?
         07
53
                           572
573
                   0359
                                                  10$
                                         bneg
                                                                                if neg then error
              90
31
31
FC AD
                   035B
                                         movb
                                                  r3, found_sign(fp)
                                                                                save sign character
       FF4B
                   035F
                                         prw
                                                  next_character
                           575
       FDA8
                   0362
                                105:
                                         brw
                                                  error
                                                                              ; signal error
                           576
577
                   0365
                   0365
                                         .enabl
                                                  lsb
                   0365
                                db_test:
              D1
12
91
13
                   0365
                                                  #2,r6
   56
                                                                                one character left?
                                         cmpl
         1F
                   0368
                           580
                                                  58
                                         bneq
                                                                                if neg then must be digit
         67
                                                  (r7),#^a/b/
62 8F
                   036A
                           581
                                         cmpb
                                                                                lower b?
         1B
67
15
                   036E
0370
                                         beal
                                                  10$
                                                                               if eal then ok
              91
42 8F
                                                  (r7),#^a/B/
                                                                                upper b?
                                         cmpb
                   0374
                                                  10$
                                                                                if eal then yes
                                         tegl
         11
               11
                   0376
                                         prp
                                                  5$
                                                                              ; treat as positive digit
                   0378
                                cr_test:
         02
00
67
08
67
                   0378
                                                  #2,r6
   56
              D1
                                         CMDL
                                                                                one character left?
              12
91
13
91
13
                   037B
                                         bnea
                                                  5$
                                                                                if neg then must be digit
72 8F
                   037D
                           589
591
593
593
595
596
                                                   (r7),#^a/r/
                                         cmpb
                                                                                lower r?
                   0381
                                                                                if eal then ok
                                         beal
                                                  10$
52 8F
                   0383
                                                  (r7),#^a/R/
                                         cmpb
                                                                                upper r?
         02
                   0387
                                                  10$
                                                                                if eql then ok
                                         beal
         ÖĒ
57
                   0389
                                         brb
                                                                                pass positive overpunch digit
                                                  pass_pos_digit
              D6
D7
                                105:
                                         incl
                                                                                pass second character
         56
20
                   038D
                                         decl
                                                                                sount the character
               90
                                                  #^a/-/,found_sign(fp)
                                         movb
                                                                              ; set sign
                                         brw
                                                  next_character
                                                                              ; try next character
```

N 12

```
B 13
                  - convert numeric and picture 16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 pli$cvt_fr_pic - convert picture to nume 6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1
                                                                                                                                     14
(2)
                                598 20$:
           FD74
                                                                                     ; not valid string
                                               brw
                                                        error
                        0399
                        0399
                                600
                                               .dsabl
                                                        lsb
                         0399
                                     pass_pos_digit:
                                 601
    FC AD
13
05 AB 06
0D
FC AD 2B
FC92 CF40
FEFC
FD59
                        0399
                                602
                   9523339933
9933
9933
                                                                                     ; sign character seen?
                                                        found_sign(fp)
                        0390
                                               bnea
                                                        10$
                                                                                       if neg then no
                                                        #pic_m_t_format!pic_m_i_format,pic$b_flags(r11); legal in set?
                                 604
                                               bitb
                                 605
                                                                                     ; if eql then no
                                               begl
                                 606
607
                                               movb
                                                        #^a/+/,found_sign(fp)
                                                                                       set sign character
                                                        over_punch_value[r0],(r8)+; insert character based on table index
next_character;
88
                                               movb
                                 608
                                               brw
                                 609 10$:
                        03B1
                                               brw
                                                                                     ; signal error
                                                        error
                         03B4
                                 610 pass_nega_digit:
          FC AD
                   95
12
93
13
90
31
31
                        0384
                                 611
                                               tstb
                                                        found_sign(fp)
                                                                                       sign character seen?
                                612
                        0387
                                                        10$
                                                                                       if neg then no
                                               bneq
                                                        05 AB
              0A
                        0389
                                               bitb
   FC AD CV
FC77 CF40
FEE1
              00
                        03BD
                                 614
                                               beql
                                                                                     ; if eal then no
                        03BF
                                 615
                                               movb
                                                        #^a/-/, found_sign(fp)
                                                                                       set sign character
                                                        over_punch_value[r0],(r8)+; insert character based on table index
next_character;
88
                                616
                        0303
                                               movb
                        0309
                                617
                                               brw
           FD3E
                        0300
                                 618 10$:
                                               brw
                                                                                     ; signal error
                                                        error
```

PLISCVTPIC 1-003

```
C 13
PLISCVTPIC
1-003
                                                                                     16-SEP-1984 02:15:53 VAX/VMS Macro V04-00 6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR;1

    convert numeric and picture

                                     pli$valid_pic - validate picture value
                                                                                                                                                        (2)
                                           03CF
03CF
                                                                  .sbttl pli$valid_pic - validate picture value
                                           03CF
                                                          pli$valid_pic - validate picture value
                                           03CF
                                           03CF
                                                          functional description:
                                           03CF
                                           03CF
                                                          This routine is used by the valid-bif and EDIT I/O to validate picture
                                           03CF
                                                          values.
                                           03CF
                                                   629
                                           03CF
                                                          inputs:
                                           03CF
                                           03CF
                                                                 O(ap) = 3
                                           03CF
                                                                 4(ap) = picture constant address
                                                                 8(ap) = size of the test string
                                           03CF
                                           03CF
                                                                 12(ap) = address of the test string
                                           03CF
                                           03CF
                                                   636
                                                          outputs:
                                           03CF
                                                   637
                                           03CF
                                                   638
                                                                 r0 = validity indicator
                                           03CF
                                                   639
                                           03CF
                                                   640
                                                          ERROR maybe signalled.
                                           03CF
                                                   641
                                                                           pli$valid_pic.^m<r2.r3.r4.r5.r6>
                                    007C
                                           03CF
                                                   642
                                                                  .entry
                       56
                                           03D1
                                                                           4(ap),r6
                                                                 movl
                                                                                                         address picture constant
                           5E
55
                                           03D5
                                                                           #31,sp
                                                   644
                                                                 subl
                                                                                                         allocate enough space for convert
                                      DO
                                           03D8
                                                    645
                                                                                                         copy address of target string
                                                                           sp, r5
                                                                 movi
                                           03DB
                                                   646
                                       DD
                                                                 pushl
                                                                                                         convert to numeric
                                 66
                                       3C
                                           03DD
                                                    647
                                                                           pic$w_pq(r6),-(sp)
12(ap)
                                                                 movzwi
                                                                                                         target p.q
                                AC
                                      DD
                                                   648
                                                                 pushl
                                                                                                         pass source address
                             08
                                                   649
                                      DD
                                                                           8(ap)
                                                                 pushl
                                                                                                         pass source size
                                56
05
                                                   650
651
                                      DD
                                                                 pushl
                                                                                                         pass constant address
                                                                           #5,w^pli$cvt_fr_pic
                                      FB
                     FE80 CF
                                                                 calls
                                                                                                         convert to numeric
                             04
                                                   652
653
                                A6
54
                                       9A
                                                                           pic$b_byte_size(r6),r4
                                                                                                         get size of result
                                                                 movzbl
                                                                          r4,sp
sp,r3
r3
                          5E
53
                                       C2
                                                                 subl
                                                                                                         allocate space
                                                   654
                                55555565565
555565565
565565
                                      DŌ
                                                                                                         copy result address
                                                                 movl
                                      DD
                                                                 pushl
                                                                                                         convert to picture
                                           03F9
                                                   656
                                      DD
                                                                 pushl
                                                   657
                                      DD
                                           03FB
                                                                 pushl
                                       3C
                           52
                                                   658
                                                                           pic$w_pq(r6),r2
                                                                 MOVZWL
                                                   659
                                      DD
                                           0400
                                                                 pushl
                                                                          #5.w^pli$cvt_to_pic
r4.(r3),#32,8(ap),@12(ap); compare_strings
10$
                                      DD
                                                   660
                                                                 pushl
                                      FB 2D 12 DO
                     FC51 CF
                                                   661
                                                                 calls
  OC BC
           08 AC
                     20
                           63
                                           0409
                                                   662
                                                                 cmpc5
                                                   663
                                                                                                       ; if neg then continue
                                                                 bneg
                                 Ŏ1
                           50
                                           0413
                                                   664
                                                                           #1,r0
                                                                 movl
                                                                                                       ; set success
                                           0416
                                                   665
                                                                 ret
                                 50
                                       D4
                                                        105:
                                                                           r0
                                           0417
                                                                                                       : set failure
                                                   666
                                                                 clrl
                                           0419
                                                   667
                                                                 ret
                                           041A
                                                   668
                                                                  .end
```

Syl

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```
E 13
PL1SCVTP1C
                                        - convert numeric and picture
                                                                                            16-SEP-1984 02:15:53 VAX/VMS Macro V04-00
                                                                                                                                                                  17
Psect synopsis
                                                                                             6-SEP-1984 11:37:15 [PLIRTL.SRC]PLICVTPIC.MAR:1
                                                                                                                                                                  (2)
                                                               Psect synopsis
PSECT name
                                        Allocation
                                                                  PSECT No.
                                                                               Attributes
. ABS
$ABS$
                                                           0.)
                                        00000000
                                                                         0.)
                                                                               NOPIC
                                                                                                                                           NOWRT NOVEC BYTE
                                                                 00 (
                                                                                         USR
                                                                                                 CON
                                                                                                        ABS
                                                                                                                LCL NOSHR NOEXE NORD
                                                                        1.)
                                        00000000
                                                                 ÕĨ
                                                                               NOPIC
                                                                                                 CON
                                                                                                        ABS
                                                                                                               LCL NOSHR
                                                                                         USR
                                                                                                                              EXE
                                                                                                                                      RD
                                                                                                                                              WRT NOVEC BYTE
_PLISCOUC
                                        0000041A ( 1050.)
                                                                  02 (
                                                                                  PIC
                                                                                         USR
                                                                                                 CON
                                                                                                        REL
                                                                                                               LCL
                                                                                                                       SHR
                                                                                                                               EXE
                                                                                                                                      RD
                                                                                                                                           NOWRT NOVEC LONG
                                                           Performance indicators
Phase
                                Page faults
                                                  CPU Time
                                                                     Elapsed Time
                                                  00:00:00.09
                                          10
                                                                     00:00:01.10
Initialization
                                                                     00:00:04.38
00:00:10.30
                                          7Ŏ
                                                  00:00:00.50
Command processing
                                        112
                                                  00:00:02.87
Pass 1
                                                  00:00:00.06
00:00:01.33
                                                                     00:00:00.07
Symbol table sort
                                           0
                                        112
Pass 2
                                                                     00:00:03.75
Symbol table output
                                                  00:00:00.08
                                                                     00:00:00.08
Psect synopsis output
                                                  00:00:00.02
                                                                     00:00:00.02
Cross-reference output
                                                  00:00:00.00
                                                                     00:00:00.00
Assembler run totals
                                                  00:00:04.96
                                                                     00:00:19.70
The working set limit was 1050 pages.
16018 bytes (32 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 85 non-local and 35 local symbols.
668 source lines were read in Pass 1, producing 21 object records in Pass 2. 11 pages of virtual memory were used to define 10 macros.
                                                          Macro library statistics !
Macro library name
                                                        Macros defined
$255$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1
$255$DUA28:[SYSLIB]STARLET.MLB;2
```

**

94 GETS were required to define 7 macros.

TOTALS (all libraries)

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS\$:PLICVTPIC/OBJ=OBJ\$:PLICVTPIC MSRC\$:PLICVTPIC/UPDATE=(ENH\$:PLICVTPIC)+LIB\$:PLIRTM

0307 AH-BT13A-SE

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